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1 Migration: Optimizing the migration of virtual computers

Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum

December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

 Full text available: [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes. We have chosen to move x86 computer states because x86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, x86 c ...

2 Fast detection of communication patterns in distributed executions


Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

 Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Teaching computer networking using open source software


Daniel Nelson, Yau Man Ng

July 2000 ACM SIGCSE Bulletin , Proceedings of the 5th annual SIGCSE/SIGCUE ITiCSEconference on Innovation and technology in computer science education, Volume 32 Issue 3

 Full text available: [pdf\(443.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

For the past seven years we have taught a subject entitled Network Software and Management (NSM) for both computer science and electrical engineering students. We discuss the evolution of this subject syllabus in response to the changing requirements of the workplace environment, ever improving technology and the need to combine theory and

practice in teaching subjects such as this. We used open source software exclusively in our laboratory exercises and we provide the rationale behind our choice ...

4 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available:  pdf(7.24 MB) Additional Information: [full citation](#), [citations](#)

5 The click modular router

Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Full text available:  pdf(376.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

Keywords: component systems, routers, software router performance

6 First International Workshop on Persistence and Java

Malcolm Atkinson, Mick Jordan

November 1996 Technical Report, Sun Microsystems, Inc.

Full text available:  pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#)

These proceedings record the First International Workshop on Persistence and Java, which was held in Drymen, Scotland in September 1996. The focus of this workshop was the relationship between the Java languages and long-term data storage, such as databases and orthogonal persistence. There are many approaches being taken, some pragmatic and some guided by design principles. If future application programmers building large and long-lived systems are to be well-supported, it is essential that the ...

7 A multi-purpose computer lab for a small college

Darrah Chavey

November 1995 **Proceedings of the 23rd annual ACM SIGUCCS conference on User services: winning the networking game**

Full text available:  pdf(697.22 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

8 Automated hoarding for mobile computers

Geoffrey H. Kuenning, Gerald J. Popek

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.05 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 RFC1689: A Status Report on Networked Information Retrieval: Tools and Groups

August 1994 rfc, RFC Editor

Additional Information: [full citation](#)

The purpose of this report is to increase the awareness of Networked Information Retrieval by bringing together in one place information about the various networked information retrieval tools, their developers, interested organisations, and other activities that relate to the production, dissemination, and support of NIR tools. NIR Tools covered include Archie, WAIS, gopher and World Wide Web.

10 Facial animation framework for the web and mobile platforms

Igor S. Pandzic

February 2002 **Proceeding of the seventh international conference on 3D Web technology**

Full text available:  [pdf\(906.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Talking virtual characters are graphical simulations of real or imaginary persons capable of human-like behavior, most importantly talking and gesturing. They may find applications on the Internet and mobile platforms as newscasters, customer service representatives, sales representatives, guides etc. After briefly discussing the possible applications and the technical requirements for bringing such applications to life, we describe our approach to enable these applications: the Facial Animation ...

Keywords: FBA, MPEG-4, VRML, facial animation, facial motion cloning, talking head, virtual characters, virtual humans, visual text-to-speech

11 Invited papers on the frontiers of software practice: Cybersecurity

Richard A. Kemmerer

May 2003 **Proceedings of the 25th international conference on Software engineering**

Full text available:   [pdf\(1.17 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#)

As more business activities are being automated and an increasing number of computers are being used to store sensitive information, the need for secure computer systems becomes more apparent. This need is even more apparent as systems and applications are being distributed and accessed via an insecure network, such as the Internet. The Internet itself has become critical for governments, companies, financial institutions, and millions of everyday users. Networks of computers support a multitude ...

12 Columns: Risks to the public in computers and related systems

Peter G. Neumann

March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2

Full text available:  [pdf\(1.54 MB\)](#) Additional Information: [full citation](#)

13 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public

as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

14 [RFC2828: Internet Security Glossary](#)

R. Shirey
May 2000 rfc, RFC Editor

Additional Information: [full citation](#)

This Glossary (191 pages of definitions and 13 pages of references) provides abbreviations, explanations, and recommendations for use of information system security terminology. The intent is to improve the comprehensibility of writing that deals with Internet security, particularly Internet Standards documents (ISDs). To avoid confusion, ISDs should use the same term or definition whenever the same concept is mentioned. To improve international understanding, ISDs should use te ...

15 [Mobile networking in the Internet](#)

Charles E. Perkins
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available: [pdf\(166.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

16 [Workshop on compositional software architectures: workshop report](#)

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available: [pdf\(2.91 MB\)](#) Additional Information: [full citation](#), [index terms](#)

17 [Composable ad-hoc mobile services for universal interaction](#)

Todd D. Hodes, Randy H. Katz, Edouard Servan-Schreiber, Lawrence Rowe
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: [pdf\(1.86 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 [Third Generation Computer Systems](#)

Peter J. Denning
December 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 4

Full text available: [pdf\(3.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The common features of third generation operating systems are surveyed from a general view, with emphasis on the common abstractions that constitute at least the basis for a "theory" of operating systems. Properties of specific systems are not discussed except where examples are useful. The technical aspects of issues and concepts are stressed, the nontechnical aspects mentioned only briefly. A perfunctory knowledge of third generation